# RED SEAL

THE INTERPROVINCIAL STANDARDS RED SEAL PROGRAM

## National Occupational Analysis

# 2011 | Painter and Decorator

Human Resources and Skills Development Canada
Ressources humaines et Développement des compétences Canada
Canada

**Occupational Analyses Series**

# Painter and Decorator

**2011**


| | |
|---|---|
| Trades and Apprenticeship Division | Division des métiers et de l'apprentissage |
| Workplace Partnerships Directorate | Direction des partenariats en milieu de travail |
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# FOREWORD

***The Canadian Council of Directors of Apprenticeship (CCDA) recognizes this National Occupational Analysis (NOA) as the national standard for the occupation of painter and decorator.***

**Background**

The first National Conference on Apprenticeship in Trades and Industries, held in Ottawa in 1952, recommended that the federal government be requested to cooperate with provincial and territorial apprenticeship committees and officials in preparing analyses of a number of skilled occupations. To this end, Human Resources and Skills Development Canada (HRSDC) sponsors a program, under the guidance of the CCDA, to develop a series of NOAs.

The NOAs have the following objectives:

- to describe and group the tasks performed by skilled workers;
- to identify which tasks are performed in every province and territory;
- to develop instruments for use in the preparation of Interprovincial Red Seal Examinations and curricula for training leading to the certification of skilled workers;
- to facilitate the mobility of apprentices and skilled workers in Canada; and,
- to supply employers, employees, associations, industries, training institutions and governments with analyses of occupations.

# ACKNOWLEDGEMENTS

The CCDA and HRSDC wish to express sincere appreciation for the contribution of the many tradespersons, industrial establishments, professional associations, labour organizations, provincial and territorial government departments and agencies, and all others who contributed to this publication.

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| Jerry White | Saskatchewan |

This analysis was prepared by the Workplace Partnerships Directorate of HRSDC. The coordinating, facilitating and processing of this analysis were undertaken by employees of the NOA development team of the Trades and Apprenticeship Division. The host jurisdiction of New Brunswick also participated in the development of this NOA.

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# LIST OF PUBLISHED NATIONAL OCCUPATIONAL ANALYSES (Red Seal Trades)

| TITLE | NOC* Code |
|---|---|
| Agricultural Equipment Technician (2007) | 7312 |
| Appliance Service Technician (2011) | 7332 |
| Automotive Painter (2009) | 7322 |
| Automotive Service Technician (2011) | 7321 |
| Baker (2006) | 6252 |
| Boilermaker (2008) | 7262 |
| Bricklayer (2011) | 7281 |
| Cabinetmaker (2007) | 7272 |
| Carpenter (2010) | 7271 |
| Concrete Finisher (2006) | 7282 |
| Construction Craft Worker (2009) | 7611 |
| Construction Electrician (2011) | 7241 |
| Cook (2011) | 6242 |
| Electrical Rewind Mechanic (1999) | 7333 |
| Floorcovering Installer (2005) | 7295 |
| Glazier (2008) | 7292 |
| Hairstylist (2011) | 6271 |
| Heavy Duty Equipment Technician (2009) | 7312 |
| Industrial Electrician (2011) | 7242 |
| Industrial Mechanic (Millwright) (2009) | 7311 |
| Instrumentation and Control Technician (2010) | 2243 |
| Insulator (Heat and Frost) (2007) | 7293 |
| Ironworker (Generalist) (2010) | 7264 |
| Ironworker (Reinforcing) (2010) | 7264 |
| Ironworker (Structural/Ornamental) (2010) | 7264 |
| Landscape Horticulturist (2010) | 2225 |
| Lather (Interior Systems Mechanic) (2007) | 7284 |

* National Occupational Classification

| TITLE | NOC* Code |
|---|---|
| Machinist (2010) | 7231 |
| Metal Fabricator (Fitter) (2008) | 7263 |
| Mobile Crane Operator (2009) | 7371 |
| Motorcycle Mechanic (2006) | 7334 |
| Motor Vehicle Body Repairer (Metal and Paint) (2010) | 7322 |
| Oil Heat Systems Technician (2006) | 7331 |
| Painter and Decorator (2011) | 7294 |
| Partsperson (2010) | 1472 |
| Plumber (2010) | 7251 |
| Powerline Technician (2009) | 7244 |
| Recreation Vehicle Service Technician (2006) | 7383 |
| Refrigeration and Air Conditioning Mechanic (2009) | 7313 |
| Rig Technician (2008) | 8232 |
| Roofer (2006) | 7291 |
| Sheet Metal Worker (2010) | 7261 |
| Sprinkler System Installer (2009) | 7252 |
| Steamfitter/Pipefitter (2010) | 7252 |
| Tilesetter (2010) | 7283 |
| Tool and Die Maker (2010) | 7232 |
| Transport Trailer Technician (2008) | 7321 |
| Truck and Transport Mechanic (2010) | 7321 |
| Welder (2009) | 7265 |

**Requests for printed copies of NOAs may be forwarded to:**

Trades and Apprenticeship Division
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**These publications can be ordered or downloaded online at: http://www.red-seal.ca. Links to Essential Skills Profiles for some of these trades are also available on this website.**

## STRUCTURE OF ANALYSIS

To facilitate understanding of the occupation, the work performed by tradespersons is divided into the following categories:

| | |
|---|---|
| **Blocks** | the largest division within the analysis that is comprised of a distinct set of trade activities |
| **Tasks** | distinct actions that describe the activities within a block |
| **Sub-Tasks** | distinct actions that describe the activities within a task |
| **Key Competencies** | activities that a person should be able to do in order to be called 'competent' in the trade |

The analysis also provides the following information:

| | |
|---|---|
| **Trends** | changes identified that impact or will impact the trade including work practices, technological advances, and new materials and equipment |
| **Related Components** | a list of products, items, materials and other elements relevant to the block |
| **Tools and Equipment** | categories of tools and equipment used to perform all tasks in the block; these tools and equipment are listed in Appendix A |
| **Context** | information to clarify the intent and meaning of tasks |
| **Required Knowledge** | the elements of knowledge that an individual must acquire to adequately perform a task |

The appendices located at the end of the analysis are described as follows:

| | |
|---|---|
| **Appendix A — Tools and Equipment** | a non-exhaustive list of tools and equipment used in this trade |
| **Appendix B — Glossary** | definitions or explanations of selected technical terms used in the analysis |
| **Appendix C — Acronyms** | a list of acronyms used in the analysis with their full name |
| **Appendix D — Block and Task Weighting** | the block and task percentages submitted by each jurisdiction, and the national averages of these percentages; these national averages determine the number of questions for each block and task in the Interprovincial exam |
| **Appendix E — Pie Chart** | a graph which depicts the national percentages of exam questions assigned to blocks |
| **Appendix F — Task Profile Chart** | a chart which outlines graphically the blocks, tasks and sub-tasks of this analysis |

# DEVELOPMENT AND VALIDATION OF ANALYSIS

## Development of Analysis

A draft analysis is developed by a committee of industry experts in the field led by a team of facilitators from Human Resources and Skills Development Canada. This draft analysis breaks down all the tasks performed in the occupation and describes the knowledge and abilities required for a tradesperson to demonstrate competence in the trade.

## Draft Review

The National Occupational Analysis (NOA) development team then forwards a copy of the analysis and its translation to provincial and territorial authorities for a review of its content and structure. Their recommendations are assessed and incorporated into the analysis.

## Validation and Weighting

The analysis is sent to all provinces and territories for validation and weighting. Participating jurisdictions consult with industry to validate and weight the document, examining the blocks, tasks and sub-tasks of the analysis as follows:

| | |
|---|---|
| **BLOCKS** | Each jurisdiction assigns a percentage of questions to each block for an examination that would cover the entire trade. |
| **TASKS** | Each jurisdiction assigns a percentage of exam questions to each task within a block. |
| **SUB-TASKS** | Each jurisdiction indicates, with a YES or a NO, whether or not each sub-task is performed by skilled workers within the occupation in its jurisdiction. |

The results of this exercise are submitted to the NOA development team who then analyzes the data and incorporates it into the document. The NOA provides the individual jurisdictional validation results as well as the national averages of all responses. The national averages for block and task weighting guide the Interprovincial Red Seal Examination plan for the trade.

This method for the validation of the NOA also identifies common core sub-tasks across Canada for the occupation. If at least 70% of the responding jurisdictions perform a sub-task, it shall be considered common core. Interprovincial Red Seal Examinations are based on the common core sub-tasks identified through this validation process.

## Definitions for Validation and Weighting

| | |
|---|---|
| **YES** | sub-task performed by qualified workers in the occupation in a specific jurisdiction |
| **NO** | sub-task not performed by qualified workers in the occupation in a specific jurisdiction |
| **NV** | analysis Not Validated by a province/territory |
| **ND** | trade Not Designated in a province/territory |
| **NOT COMMON CORE (NCC)** | sub-task, task or block performed by less than 70% of responding jurisdictions; these will not be tested by the Interprovincial Red Seal Examination for the trade |
| **NATIONAL AVERAGE %** | average percentage of questions assigned to each block and task in Interprovincial Red Seal Examination for the trade |

## Provincial/Territorial Abbreviations

| | |
|---|---|
| **NL** | Newfoundland and Labrador |
| **NS** | Nova Scotia |
| **PE** | Prince Edward Island |
| **NB** | New Brunswick |
| **QC** | Quebec |
| **ON** | Ontario |
| **MB** | Manitoba |
| **SK** | Saskatchewan |
| **AB** | Alberta |
| **BC** | British Columbia |
| **NT** | Northwest Territories |
| **YT** | Yukon Territory |
| **NU** | Nunavut |

# ANALYSIS

# SAFETY

Safe working procedures and conditions, accident prevention, and the preservation of health are of primary importance to industry in Canada. These responsibilities are shared and require the joint efforts of government, employers and employees. It is imperative that all parties become aware of circumstances that may lead to injury or harm. Safe learning experiences and work environments can be created by controlling the variables and behaviours that may contribute to accidents or injury.

It is generally recognized that safety-conscious attitudes and work practices contribute to a healthy, safe and accident-free work environment.

It is imperative to apply and be familiar with the Occupational Health and Safety (OH&S) Acts and Workplace Hazardous Materials Information System (WHMIS) Regulations. As well, it is essential to determine workplace hazards and take measures to protect oneself, co-workers, the public and the environment.

Safety education is an integral part of training in all jurisdictions. As safety is an imperative part of all trades, it is assumed and therefore it is not included as a qualifier of any activities. However, the technical safety tasks and sub-tasks specific to the trade are included in this analysis.

# SCOPE OF THE PAINTER AND DECORATOR TRADE

"Painter and Decorator" is this trade's official Red Seal occupational title approved by the CCDA. This analysis covers tasks performed by painters and decorators whose occupational title has been identified by some provinces and territories of Canada under the following names:

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Painter | | | | | ✓ | | | | | | | | |
| Painter and Decorator | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Painter and Decorator – Commercial and Residential | | | | | | ✓ | | | | | | | |

Painters and decorators apply decorative and protective finishes in residential, commercial, institutional and industrial settings. They prepare a variety of surfaces (wood, masonry, drywall, plaster, concrete, synthetics, stucco and metal) prior to the application of materials such as paint, high performance coatings, waterproofing, fireproofing, varnish, shellac, wall coverings and specialty finishes. These materials are applied for a variety of reasons such as protection, decoration, sanitation, identification and safety.

Painters and decorators are employed by construction companies, painting contractors or building maintenance contractors, or they are self-employed. They work on residential, commercial, institutional and industrial projects. Some painters and decorators may work for years on a single site; others may work for contractors that rarely work on the same site more than once.

Painters and decorators may come in contact with hazardous materials such as isocyanates, free silica, lead, volatile organic compounds (VOC) and at times, carcinogenic materials. They may work with some physical discomfort when preparing surfaces or applying coatings in awkward positions. Painters and decorators may work indoors and outdoors. They also may risk injury from falling off access equipment such as ladders, platforms, scaffolds and swing stages.

Key attributes for people entering this trade are manual dexterity, excellent colour perception and artistic aptitude. The work often requires considerable standing, kneeling and repetitive activities such as brushing, rolling, spraying and blasting. Painters and decorators must have an eye for detail, the ability to plan work, and knowledge of many types of finishes, their properties and their applications. They must be able to calculate areas and relate such calculations to required material. Good communication and customer service skills are required by painters and decorators who often interact with home/business owners, contractors, interior designers, architects and engineers. Experienced painters and decorators may advance to supervisory positions for painting contractors or in other related fields such as construction management, instructing, estimating or building inspection.

## OCCUPATIONAL OBSERVATIONS

Manufacturers are continually making changes to their products to make them more environmentally friendly. Organic paints and non-caustic cleaners that are solvent-free and VOC-free are becoming increasingly popular as their performance continues to improve.

Safety and environmental concerns have also led manufacturers to make substantial changes to equipment used. For example, infrared heat equipment is increasingly being used instead of hazardous chemicals for removing paint and varnish. The infrared technology allows paint or varnish to be scraped off and disposed of easily while preventing the release of harmful gases.

Increased urban development has resulted in many homes and businesses being closer to sources of high-frequency electromagnetic radiation such as telecommunication antennae and other similar sources of radiation. Electromagnet shielding paints are increasingly incorporated in the construction of new buildings or added to existing ones to reduce the exposure of a building's occupants to these radiations and therefore help mitigate their potential adverse health effects.

Intumescent coatings are increasingly being used on steel columns that must be fire-proofed by code. These coatings allow architectural design to be maintained while providing benefits such as a significantly reduced total system thickness, durability, aesthetics and good adhesion. They can also be top-coated to match surroundings.

Due to increasingly stringent environmental controls, the move away from oil-based products will continue thereby making it healthier for painters and better for the environment. The constant development of new products and technology requires ongoing learning in order to keep skills up-to-date.

# ESSENTIAL SKILLS SUMMARY

Essential skills are needed for work, learning and life. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change.

Through extensive research, the Government of Canada and other national and international agencies have identified and validated nine essential skills. These skills are used in nearly every occupation and throughout daily life in different ways.

A series of CCDA-endorsed tools have been developed to support apprentices in their training and to be better prepared for a career in the trades. The tools can be used independently or with the assistance of a tradesperson, trainer, employer, teacher or mentor to:

- understand how essential skills are used in the trades;
- learn about individual essential skills strengths and areas for improvement; and
- improve essential skills and increase success in an apprenticeship program.

The tools are available online or for order at: www.hrsdc.gc.ca/essentialskills

The essential skills profile for the painter and decorator trade indicates that the most important essential skills are **oral communication**, **problem solving**, and **job task planning and organizing**. The NOA workshop participants indicated that **working with others** is also very important.

The application of these skills may be described throughout this document within the competency statements which support each subtask of the trade. The following are summaries of the requirements in each of the essential skills, taken from the essential skills profile. A link to the complete essential skills profile can be found at www.red-seal.ca.

***Reading***

Painters and decorators read a variety of safety related documentation such as Material Safety Data Sheets (MSDS) to understand the safety and personal protective equipment (PPE) requirements when using a particular material or substance, OH&S Regulations to determine correct and safe procedures to use, and hazard assessments to determine what to do in different hazardous situations. They read product data sheets to determine the proper application and use of particular materials and substances. They also read labels on equipment as well as the instructions for their use. This is important when troubleshooting, or when setting up or using a piece of equipment for the first time to ensure safe and efficient use of the equipment.

*Document Use*
Painters and decorators interpret and refer to blueprints to determine the type of paints and coatings to be applied and to which areas. They read assembly drawings and make sketches of items to be built such as containment structures. They refer to tables or charts to determine exposure limits to different chemicals and to select appropriate PPE. They also complete time sheets and record quality control information such as batch numbers, temperatures and drying times for future reference in case problems arise.

*Writing*
Painters and decorators complete work orders, material lists and time sheets. They may write a list of tasks to be performed. They may also sign for materials received.

*Numeracy*
Painters and decorators estimate mix ratios and measure out quantities of paints, thinners, solvents and coatings. They estimate the amount of time, cost and material required to complete a job. They also estimate and calculate measurements such as square footage, coverage and cubic feet per minute (CFM). They calculate the weight of material that can safely be supported on swing stages and platforms. Painters and decorators also use both the metric and imperial measurement systems and therefore must be able to convert between the two systems.

*Oral Communication*
Painters and decorators talk with co-workers, foremen, and other tradespeople to co-ordinate activities or to clarify procedures. They give directions to apprentices, participate in project meetings and advise customers on selection of colour schemes and choice of wall coverings. Painters and decorators performing work in an industrial setting use hand signals and/or two-way radios to communicate with crane operators and other tradespeople.

*Thinking Skills*
Painters and decorators use problem solving skills to address issues that may arise on the job such as colour mismatch or defects in finishes, or to troubleshoot problems with equipment. They use decision making skills to decide on the types of materials and application methods to use on a job, and to determine how to approach the job. They plan the materials and equipment they need for a job and schedule tasks to meet the needs of other trades on site.

*Working with Others*
Painters and decorators usually work as part of a team that may include apprentices, other journeypersons, and supervisors although they may work alone on some specific tasks or jobs. Painters and decorators may perform supervisory functions and guide or monitor the work performance of others, including apprentices or new employees.

*Computer Use*
Painters and decorators may use the Internet to look up product and safety information. They may use computers for designing graphics, reporting work logs and matching colours.

***Continuous Learning***

Painters and decorators learn through on-the-job training and observation of co-workers. They may keep up on their product knowledge by talking with suppliers or reading product/equipment information pamphlets or other literature. They may attend upgrading courses when entering a new area of specialization. Painters and decorators may also attend training sessions provided by manufacturers of new or specialty products and by union training providers.

## BLOCK A COMMON OCCUPATIONAL SKILLS

**Trends**

Painters and decorators are required to use computers more often to access and record information. There is an increased requirement to reference and complete quality control and safety documentation. There is an increase in use of platforms and enclosed containment areas to respect safety and environmental regulations.

**Related Components**

All components apply.

**Tools and Equipment**

See Appendix A.

### Task 1 Performs safety-related functions.

**Context**

Painters and decorators use and maintain PPE and safety equipment to provide protection of self and others.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of PPE such as respirators, safety glasses and steel-toed boots |
| K 2 | types of safety equipment such as fire extinguishers, first aid kits and eye wash stations |
| K 3 | types of fall arrest, fall restraint and fall prevention equipment and procedures |
| K 4 | training requirements for certain PPE |
| K 5 | WHMIS including MSDS and labels |
| K 6 | company safety policies, procedures and training |
| K 7 | jurisdictional health and safety acts and regulations |
| K 8 | location of safety equipment such as eye wash stations, fire extinguishers, spill kits and first aid kits |
| K 9 | procedures for working in confined spaces |
| K 10 | disposal and recycling procedures |
| K 11 | product data sheets |

| | |
|---|---|
| K 12 | housekeeping practices such as hanging or taping down extension cords, sweeping up work area and removing tools and equipment not in use |
| K 13 | escape route, evacuation plan and muster point |
| K 14 | working in extreme temperatures |

---

**Sub-task**

**A-1.01** **Uses personal protective equipment (PPE) and safety equipment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-1.01.01 | determine which type of PPE and safety equipment to use according to task to be performed |
| A-1.01.02 | perform positive and negative air flow system seal tests when donning respirator mask to ensure proper seal |
| A-1.01.03 | clean interior and exterior of respirator mask according to manufacturers' specifications before and after each use to ensure proper functioning and fit |
| A-1.01.04 | replace respirator pre-filters when required and cartridges according to manufacturers' specifications to ensure proper functioning |
| A-1.01.05 | replace defective or damaged parts of respirator mask as required |
| A-1.01.06 | inspect PPE and safety equipment for damage before each use |
| A-1.01.07 | dispose of damaged or expired PPE and safety equipment such as fall arrest systems, respirators and hard hats |
| A-1.01.08 | store PPE and safety equipment according to manufacturers' specifications to promote longevity of equipment |

---

**Sub-task**

**A-1.02** **Maintains safe work environment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-1.02.01 | install temporary safety protection such as caution tape and signage |
| A-1.02.02 | ventilate workplace using methods such as setting up fans, opening doors or windows and installing positive and/or negative air systems |

| | |
|---|---|
| A-1.02.03 | organize work area to minimize possibility of tripping hazards or falling objects |
| A-1.02.04 | recognize and report unsafe work practices and hazards |

## Task 2 — Uses and maintains tools and equipment.

**Context** Painters and decorators maintain tools and equipment in order to ensure their safe use, longevity and optimal performance. Proper maintenance also avoids product contamination and helps obtain the desired finish.

**Required Knowledge**

| | |
|---|---|
| K 1 | hand tools and their uses for specific jobs |
| K 2 | power tools and their uses for specific jobs |
| K 3 | abrasive blasting equipment and media such as sand, soda, glass and water |
| K 4 | spray equipment such as airless, high volume low pressure (HVLP), electrostatic and conventional |
| K 5 | measuring equipment such as measuring cups, tape measures and rulers |
| K 6 | testing equipment such as sling psychrometers, wet and dry film thickness gauges and holiday testers |
| K 7 | rigging, hoisting and lifting equipment and components such as straps, slings, chains and shackles |
| K 8 | common problems with equipment |
| K 9 | tool and equipment manufacturers' specifications and instructions |
| K 10 | applications, operating procedures, limitations and training requirements of rigging, hoisting and lifting equipment |
| K 11 | types of scaffolding such as ground-based (stationary and mobile) and suspended (tube and clamp) |
| K 12 | types of suspended access equipment such as swing stages and spiders |
| K 13 | scaffolding components such as stirrups, planks, outriggers and cross braces |
| K 14 | access equipment such as ladders and elevated work platforms |
| K 15 | training requirements for motorized access equipment such as man lifts, swing stages and scissors lifts |
| K 16 | fall arrest, fall restraint and fall prevention equipment and procedures |
| K 17 | restrictions for access equipment such as electrical, height, no-step zones, load limitations and no painting of ladders |
| K 18 | 3-point contact on access equipment such as ladders, step-ladders and access ladders |

| | |
|---|---|
| K 19 | load limits of rigging, hoisting and lifting equipment |
| K 20 | jurisdictional health and safety acts and regulations |
| K 21 | hoisting and lifting hand signals |

---

**Sub-task**

**A-2.01 Maintains tools and equipment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-2.01.01 | inspect tools and equipment for excessive wear or damage such as frayed or cut extension cords, flared brushes and worn roller sleeves |
| A-2.01.02 | inspect tool and equipment components for excessive wear or damage such as worn couplings, nozzles, hoses, blasting pots and rubber seals |
| A-2.01.03 | repair spray equipment by replacing or repairing damaged components such as hoses, couplings, fittings, washers and screens |
| A-2.01.04 | lubricate spray equipment components and air-powered tools according to manufacturers' specifications |
| A-2.01.05 | clean spray equipment components such as tips, pumps, guns and filters according to materials used and manufacturers' specifications |
| A-2.01.06 | clean brushes and roller sleeves using appropriate solvent following industry accepted procedures |
| A-2.01.07 | clean hand tools such as scraper blades, trowels and broad knives by using appropriate solvent and/or by sanding or scraping off dried material |
| A-2.01.08 | repair power tools by replacing worn components such as grinding wheels, brushes and cords |
| A-2.01.09 | lubricate and top up fluids in abrasive blasting equipment components such as compressor and air dryer |
| A-2.01.10 | clean abrasive blasting equipment by emptying pots, blowing out lines and wiping down hoses |
| A-2.01.11 | calibrate measuring and testing equipment according to manufacturers' specifications |
| A-2.01.12 | store tools and equipment according to manufacturers' specifications |

**Sub-task**

**A-2.02 Uses rigging, hoisting and lifting equipment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-2.02.01 | inspect rigging, hoisting and lifting equipment and report worn, damaged, expired or defective components |
| A-2.02.02 | lubricate moving parts of motorized hoisting and lifting equipment such as chains, gears and wheels |
| A-2.02.03 | store rigging, hoisting and lifting equipment according to manufacturers' specifications |
| A-2.02.04 | calculate weight of materials to be lifted to respect load limits of rigging, hoisting and lifting equipment |
| A-2.02.05 | set up rigging, hoisting and lifting equipment according to manufacturers' specifications |

**Sub-task**

**A-2.03 Uses access equipment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-2.03.01 | replace deteriorated, worn or damaged access equipment components such as frayed ropes and cables, broken feet and split planks |
| A-2.03.02 | position step ladders and extension ladders according to health and safety guidelines |
| A-2.03.03 | lay out scaffolding to ensure all necessary parts and components are present and compatible for assembly |
| A-2.03.04 | assemble scaffolding while maintaining level working platform and base |
| A-2.03.05 | tie in scaffolding and ladders to structure according to jurisdictional regulations to ensure scaffolding and ladders are secured |
| A-2.03.06 | install kickboards (toeboards) and guardrails according to safety regulations |
| A-2.03.07 | install outriggers according to safety regulations to stabilize scaffolding |
| A-2.03.08 | disassemble scaffolding keeping all components together for future assembly |
| A-2.03.09 | store scaffolding and ladders in approved storage locations |

## Task 3 — Performs routine trade practices.

**Context** This task describes common activities performed by painters and decorators. They include using trade-related documentation, determining project requirements, planning jobs, protecting surroundings and handling materials.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of documentation such as permits, blueprints, manufacturers' specifications, work orders, contracts and safety documentation (MSDS and WHMIS symbols) |
| K 2 | surface preparation and paint application standards such as the Society for Protective Coatings (SSPC), the National Association of Corrosion Engineers (NACE) and the International Standards Organization (ISO) |
| K 3 | site specific safety policies, procedures and training |
| K 4 | sequence and timing of procedures |
| K 5 | utilities required such as heating, electricity and water |
| K 6 | containment products such as tarps, plastic and shrink wrap |
| K 7 | protective coverings such as drop cloths, plastic, hoarding and tape |
| K 8 | environmental regulations and standards |
| K 9 | types and amounts of materials required for project |
| K 10 | handling and mixing procedures for different types of materials such as solvents and paints |
| K 11 | removal and disposal of hazardous materials such as asbestos and lead-based paints |
| K 12 | storage requirements such as explosive-proof cabinets and protection from freezing |
| K 13 | requirements for the transportation of dangerous goods (TDG) |

**Sub-task**

**A-3.01 Uses documentation.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-3.01.01 | locate documentation |
| A-3.01.02 | interpret documentation such as WHMIS symbols, specifications, site-specific documents, drawings and blueprints |
| A-3.01.03 | complete work-related documents such as work orders, material lists and time and materials sheets (T&M) |
| A-3.01.04 | document jobsite problems such as humidity and dust levels for future reference in case of deficiencies |

**Sub-task**

**A-3.02 Determines project requirements.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | no | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-3.02.01 | determine area of substrate to be covered by estimating or by referencing blueprints or drawings |
| A-3.02.02 | calculate time and labour requirements based on area to be covered such as square footage covering, linear footage covering and hourly rates |
| A-3.02.03 | estimate tools and materials needed for project such as paint, brushes, rollers, wall coverings, drop sheets, extension cords, and spray equipment and accessories |
| A-3.02.04 | determine and recommend product to be used |
| A-3.02.05 | determine equipment required such as ladders, scaffolding, lifting equipment and spray equipment |
| A-3.02.06 | determine availability of power and water |
| A-3.02.07 | determine ventilation requirements depending on size of project and materials used |
| A-3.02.08 | determine method of application required |

**Sub-task**

**A-3.03 Plans job.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-3.03.01 | coordinate ordering of materials and paint with supervisor or suppliers |
| A-3.03.02 | organize tools and equipment on site such as explosion-proof box, job box, brushes, rollers and paints |
| A-3.03.03 | determine optimal location for shop on site |
| A-3.03.04 | coordinate work with other tradespersons on the job site |
| A-3.03.05 | adapt to changing environmental conditions such as temperature and humidity changes |
| A-3.03.06 | determine and adjust working hours based on job conditions and requirements |
| A-3.03.07 | create job safety analysis (JSA) to identify potential hazards |

**Sub-task**

**A-3.04 Protects surroundings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-3.04.01 | erect hoarding and enclosures around work area using protective products such as wallboards, plywood and polyethylene tarps |
| A-3.04.02 | cover surrounding objects such as furniture, flooring, lighting fixtures and landscaping using drop sheets and plastic to protect against paint splatter and overspray, and for ease of clean-up |
| A-3.04.03 | cover electrical outlets before applying water to substrate for procedures such as wall paper removal |
| A-3.04.04 | use spill kits and spill trays when mixing or pouring paints and coatings according to environmental regulations to protect surroundings |
| A-3.04.05 | wear protective clothing such as disposable booties, coveralls and hoods to prevent contamination |

**Sub-task**

**A-3.05 Handles materials.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-3.05.01 | acclimatize paints, coatings and wall coverings to enhance product performance |
| A-3.05.02 | store paints, coatings and solvent according to manufacturers' specifications and safety regulations such as storing in explosive-proof cabinets or protecting water-borne products from freezing |
| A-3.05.03 | dispose of used and empty product containers according to environmental and safety regulations |
| A-3.05.04 | cover trays and place lids on cans to protect paints and coatings and to prevent spills |
| A-3.05.05 | dispose of soiled rags in approved containers to prevent spontaneous combustion |

## Task 4 Performs quality control assessments.

**Context** Painters and decorators must evaluate jobs in order to provide high quality results. This is done by identifying substrate and product deficiencies and evaluating the final work.

**Required Knowledge**

| | |
|---|---|
| K 1 | compatibility of coatings such as water-borne and oil-based paints |
| K 2 | causes of deficiencies such as excessive moisture, efflorescence, improper taping, filling and/or sanding and insufficient cure of plaster/masonry |
| K 3 | substrate conditions and deficiencies such as scaling, rusting, spalling, peeling and cracking paint |
| K 4 | levels of drywall finishes (levels 1, 2, 3, 4, 5) |
| K 5 | substrate reference materials such as SSPC and NACE |
| K 6 | product conditions and deficiencies such as improperly stored, stirred, strained or mixed paints and stains |
| K 7 | finished surface conditions and deficiencies such as air entrapment and specks of dry paint, fish eyes, orange peeling, holidays and flashing |
| K 8 | product shelf life, pot life, viscosity and batch number |

| | |
|---|---|
| K 9 | problematic substrates such as galvanized metals and concrete with form release agents present |
| K 10 | galvanic action |

---

**Sub-task**

**A-4.01 Assesses substrate conditions and deficiencies.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-4.01.01 | inspect wood for deficiencies visually and by touch to identify imperfections and select repair procedures |
| A-4.01.02 | recognize metal conditions and deficiencies such as mill scale, contaminants or rust patterns using methods such as visual check and tape pull test |
| A-4.01.03 | recognize concrete and masonry conditions and deficiencies such as efflorescence, honeycomb, surface pH and scaling |
| A-4.01.04 | recognize improperly cured concrete, masonry and plaster surfaces (hot spots) |
| A-4.01.05 | recognize the presence of mould and mildew on substrate such as wood, stucco, plaster and drywall |
| A-4.01.06 | recognize causes of drywall damage such as structural deficiencies, moisture damage, poor tape adhesion and popping screws |
| A-4.01.07 | inspect drywall surface prior to mudding for nicks, and narrow and wide gaps |
| A-4.01.08 | recognize improperly taped, filled or sanded surfaces |
| A-4.01.09 | recognize paint film defects such as blistering, mud cracking, alligatoring, orange peeling, flaking and bleeding |
| A-4.01.10 | visually inspect caulking for improper tooling or gaps |
| A-4.01.11 | perform moisture testing of substrate |
| A-4.01.12 | perform surface temperature testing of substrate and humidity testing of environment |

**Sub-task**

**A-4.02 Assesses product conditions and deficiencies.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-4.02.01 | perform visual assessment of products to identify conditions and deficiencies such as improperly stored, stirred, strained or mixed paints and stains |
| A-4.02.02 | determine product shelf life, pot life, viscosity and batch number according to manufacturers' specifications and product data sheets |
| A-4.02.03 | check dye lots, run or lot numbers and imperfections in wall coverings to ensure uniformity |
| A-4.02.04 | compare different samples of products to finished samples (draw downs) to ensure colour match and sheen |

**Sub-task**

**A-4.03 Assesses quality of painted or coated surfaces and wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| A-4.03.01 | determine if patching or touch ups are necessary |
| A-4.03.02 | visually inspect surface to determine if patching or touch-up procedures were performed correctly and that a uniform finish has been achieved |
| A-4.03.03 | compare finished surface to samples (draw downs) to ensure colour match and sheen |
| A-4.03.04 | visually inspect primed or painted surface to check coverage and even distribution of paint film |
| A-4.03.05 | inspect primer coat using a wet mil gauge and a dry film thickness gauge |
| A-4.03.06 | visually inspect painted or coated surface to check for quality of work such as cut-in lines, even flow of brush work and uniform rolled finish |
| A-4.03.07 | visually inspect wall covering to check for quality of work such as seam alignment, absence of air bubbles and use of adequate adhesive |
| A-4.03.08 | recognize paint film defects such as blistering, mud cracking, alligatoring, orange peeling, flaking and bleeding |

## BLOCK B — SURFACE PREPARATION

**Trends**

Ultra-jetting high-pressure cleaning heads are being used more commonly in surface preparation for steel. This is done to reduce the amount of hazardous waste for cleanup.

New abrasives have been introduced for projects removing lead-based products. These abrasives have the ability to encapsulate/contain lead to prevent contamination.

**Related Components (including, but not limited to)**

Tri-sodium phosphate (TSP), muriatic acid, bleach, conditioners, solvents, thinners, strippers, cleaners, soap, alcohol, detergents, methyl hydrate, blasting media, caulking, sealer, primer, trim, doors, windows, furniture, panelling, exterior wood siding, plywood, handrails, spindles, stairs, concrete blocks, ready-mix concrete, backing rods, concrete surfaces, metal doors and windows, bridges, tanks, ships, drywall, drywall tape, fasteners, compounds, corner beads, wood backing.

**Tools and Equipment**

See Appendix A.

### Task 5 — Performs general surface preparation.

**Context**

Painters and decorators prepare substrates by chemical and mechanical means (using power tools and hand tools), and clean surfaces to ensure the proper adhesion of primer and successive coats. Caulking is applied when needed.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of scrapers such as paint scrapers, broad knives and combination scrapers |
| K 2 | primer to be applied |
| K 3 | types of substrate such as wood, concrete, metal and drywall |
| K 4 | hazards associated with removal of hazardous materials such as lead paints and asbestos |
| K 5 | wall covering materials such as wall paper and commercial vinyl, and their associated adhesives |

| | |
|---|---|
| K 6 | stripping methods based on wall covering to be removed such as dry stripping and using surfactants |
| K 7 | results of unclean surface such as paint failures and poor quality finish |
| K 8 | cleaning equipment such as tack cloths, dust brushes, brooms, vacuums, pressure washers and dust collectors |
| K 9 | back priming |
| K 10 | types of water-borne and solvent-based primers for use on surfaces such as wood, metal and drywall |
| K 11 | specialty primers such as stain blocker, block filler and epoxy-based |
| K 12 | reasons for using primer (sealing, adhesion, tooth and sacrificial protection) |
| K 13 | caulking and glue removal procedures |
| K 14 | types of caulking such as epoxy, latex, silicone, polyurethane, and latex+silicone (paintable) and their areas of applications |
| K 15 | drying times of various caulking |
| K 16 | reasons for caulking breakdown such as moisture, insufficient cure time and environmental conditions |
| K 17 | uses of caulking such as filling cracks and joints in trim, and sealing around windows and doors |
| K 18 | caulking application techniques |
| K 19 | types of surfaces to be sanded such as wood, metal, drywall and concrete |
| K 20 | types of sanding tools and equipment such as power sanders (palm, disk, belt and random orbital), sanding blocks, sponges, steel wool, liquid sandpaper and pumice |
| K 21 | types of substrate and finish to be applied |
| K 22 | sandpaper grit and backing materials |
| K 23 | smoothness desired |
| K 24 | sanding sequence |

**Sub-task**

**B-5.01** **Removes existing paints and coatings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.01.01 | use tools and procedures according to the coating to be removed and the substrate |
| B-5.01.02 | blast paints and coatings from substrate using equipment such as abrasive and hydro blasting equipment |
| B-5.01.03 | power tool surface using equipment such as grinders, needle guns and air chisels according to profiling specifications |
| B-5.01.04 | apply heat or paint stripper/remover according to product data sheets to lift paint or coating for ease of removal by scraping |
| B-5.01.05 | scrape lifted paint or coating from substrate |

**Sub-task**

**B-5.02** **Removes existing wall coverings and adhesives.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.02.01 | use tools and procedures according to the wall covering and adhesive to be removed and the substrate |
| B-5.02.02 | strip wall covering using stripping tools and equipment such as steamers, sponges and water, hand pump sprayers and score/perforator rollers |
| B-5.02.03 | saturate wall coverings with chemical wall covering remover to loosen adhesive bond before removal |
| B-5.02.04 | peel and/or scrape off loose wall covering materials |
| B-5.02.05 | soak adhesive to loosen for scraping and washing |
| B-5.02.06 | remove old adhesive from substrate using cleaning materials such as TSP and warm water |

**Sub-task**

**B-5.03** **Cleans surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.03.01 | determine cleaning procedures to follow according to substrate type and properties, coatings to be used and product specifications |
| B-5.03.02 | perform cleaning procedures such as sweeping new drywall, rinsing and wiping surfaces, using degreasers and using pressure washers on concrete, masonry and metal substrates |
| B-5.03.03 | dry the cleaned substrate to ensure that coating adheres to substrate |
| B-5.03.04 | blow down surface and vacuum to eliminate dust and debris from work area |

**Sub-task**

**B-5.04** **Primes surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.04.01 | determine priming procedures to follow according to substrate type and properties, coatings to be used and product specifications |
| B-5.04.02 | use tools required for priming such as sprayers, brushes and rollers |
| B-5.04.03 | apply primer using techniques such as brushing, rolling and spraying according to manufacturers' specifications |
| B-5.04.04 | cover stains with stain-inhibiting primer to avoid bleed-through to finish coat |

**Sub-task**

**B-5.05 Sands surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.05.01 | select sandpaper type and grit to improve adhesion of subsequent coats, to create desired surface and according to substrate |
| B-5.05.02 | use sanding tools according to desired finish |
| B-5.05.03 | create surface profile for adhesion of subsequent coats |
| B-5.05.04 | perform sanding procedures such as direction, pressure and feathering |

**Sub-task**

**B-5.06 Applies caulking.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-5.06.01 | prepare substrate for caulking by drying completely to ensure adhesion |
| B-5.06.02 | cut caulking tube tip at an angle to optimize flow of caulking and ease of tooling |
| B-5.06.03 | tool caulking for uniformity, aesthetics and to create a tight seal |

## Task 6 Prepares wood surfaces for paints, coatings and wall coverings.

**Context** Painters and decorators prepare the surface by repairing imperfections such as by applying wood filler. Treating wood surfaces prior to painting is an important step in preparing the substrate. It helps to ensure a uniform finish and good adhesion of top coats. Wood surfaces that may be painted range from door frames and sheds to signage, siding and shakes.

**Required Knowledge**

| | |
|---|---|
| K 1 | minor imperfections such as nail holes, nicks, dings and cracks |
| K 2 | causes of blistering such as excessive heat and moisture |

| | |
|---|---|
| K 3 | repair procedures for minor rot |
| K 4 | types of wood substrates such as open grain and closed grain |

---

**Sub-task**

**B-6.01** **Treats wood surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-6.01.01 | determine procedures to follow for treating wood according to substrate type and properties, coatings to be used, desired finish and product specifications |
| B-6.01.02 | seal wood substrate with oil-based primer or shellac to prevent bleeding through and to prevent finish coat from absorbing into the wood |
| B-6.01.03 | smooth primed surface by sanding to ensure a uniform coat |
| B-6.01.04 | remove dust using tack cloth or lint-free rag to clean surface |

---

**Sub-task**

**B-6.02** **Repairs imperfections in wood.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-6.02.01 | fill cracks, dents and nail holes with filler material according to job requirements |
| B-6.02.02 | replace rotted or damaged wood using required tools |

## Task 7 — Prepares concrete and masonry surfaces.

**Context** Painters and decorators prepare concrete and masonry surfaces using mechanical and chemical treatments to make substrates suitable for application of coatings and to expose aggregate. This includes repairing minor imperfections and filling cracks, gaps and holes.

**Required Knowledge**

| | |
|---|---|
| K 1 | mechanical treatment tools and equipment such as grinders, chisels, pressure washers, blasters and blast tracks |
| K 2 | neutralizing to ensure adhesion of coating |
| K 3 | reasons for etching such as creating a profile on the substrate and ensuring adhesion of coating |
| K 4 | neutralizing materials such as zinc sulphate |
| K 5 | etching materials such as muriatic acid |
| K 6 | hazards of using muriatic acid such as improper mixing sequence and corrosive properties |
| K 7 | form release agent contamination |
| K 8 | imperfections to be repaired such as cracks, gaps, tie rod holes, honeycombs and efflorescence |
| K 9 | materials used such as caulking, ready-mix concrete and backing rod |

**Sub-task**

**B-7.01 Mechanically treats concrete and masonry surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-7.01.01 | use tools for mechanical treatment such as grinders, needle guns, wire brushes, chisels, pressure washers, blasters and blast tracks |
| B-7.01.02 | maintain a uniform profile on substrate at the required profile depth |
| B-7.01.03 | test areas for hardness, moisture and profile depth |

**Sub-task**

**B-7.02** **Chemically treats concrete and masonry surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-7.02.01 | mix neutralizing and etching materials according to product data sheets |
| B-7.02.02 | work chemical treatment material into substrate using a broom to etch surface and improve adhesion of coating |
| B-7.02.03 | remove contaminants, and neutralizing and etching residue by pressure washing |
| B-7.02.04 | remove efflorescence by pressure washing with a chemical formula |

**Sub-task**

**B-7.03** **Repairs concrete and masonry surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-7.03.01 | identify repair materials that are compatible with coating material |
| B-7.03.02 | fill cracks, gaps and honeycombs with grouting compound or concrete slurry using tools such as putty knives, trowels and caulking guns |
| B-7.03.03 | smooth surfaces using tools and equipment such as pole scrapers, grinders and chisels |

## Task 8 — Prepares metal surfaces.

**Context** Painters and decorators prepare metal surfaces to make substrates suitable for application of coatings. This includes grinding surfaces and applying epoxy, putty and grouts designed for metal surfaces.

**Required Knowledge**

| | |
|---|---|
| K 1 | application methods such as applying over bare metal and over compatible substrate |
| K 2 | surface preparation tools and equipment such as grinders, blasters and needle guns |
| K 3 | repair materials such as epoxy, putty and grouts |
| K 4 | types of metals and their properties such as hardness and corrosion resistance |
| K 5 | existing coating |

---

**Sub-task**

**B-8.01 Treats metal surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-8.01.01 | solvent wash metal surfaces to remove contaminants such as oil and grease |
| B-8.01.02 | etch metal surfaces by applying chemical to soft metal surfaces such as aluminium in order to improve adhesion without damage |
| B-8.01.03 | grind metal surfaces to remove sharp edges |
| B-8.01.04 | create profile with mechanical treatments by blasting or using power tools |

**Sub-task**

**B-8.02** **Repairs metal surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-8.02.01 | remove burrs, sharp edges and corrosion by grinding, scraping and using a wire brush |
| B-8.02.02 | mix filling compounds according to manufacturers' specifications |
| B-8.02.03 | fill voids and pitting by applying putty and filling material and letting it cure according to manufacturers' specifications |

## Task 9 Prepares plaster surfaces and drywall.

**Context** Painters and decorators repair damage and imperfections of existing plaster surfaces and drywall. In some jurisdictions, they may also finish new drywall.

**Required Knowledge**

| | |
|---|---|
| K 1 | imperfections to be repaired such as holes, cracks, dents, and loose tape and corner beads |
| K 2 | types of compounds such as quick-set and all-purpose compounds |
| K 3 | types of tape such as fibreglass and paper (perforated and non-perforated) |
| K 4 | setting time and recoat time of various compounds |
| K 5 | types of corner beads such as metal, plastic and paper |
| K 6 | sequence of application of compound |
| K 7 | temperature and humidity level required for finishing |

**Sub-task**

**B-9.01** **Repairs existing plaster surfaces and drywall.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-9.01.01 | remove mould and mildew by applying bleach or mildewcide |
| B-9.01.02 | mix compound to required consistency |
| B-9.01.03 | fill cracks, holes and dents using tools such as broad knives and trowels |
| B-9.01.04 | correct deficiencies such as bubbling tape, out-of-square corner bead and loose or improperly installed screws |
| B-9.01.05 | replace drywall components such as corner beads and tape |
| B-9.01.06 | remove damaged drywall and replace or fill with mud compound |

**Sub-task**

**B-9.02** **Finishes new drywall.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| B-9.02.01 | apply mud and tape using tools such as broad knives, trowels, hawks, sanding sponges, pole sanders and tape dispensers |
| B-9.02.02 | install corner bead using tools and materials such as corner crimpers, staple guns and contact cement |
| B-9.02.03 | mix compound to required consistency |
| B-9.02.04 | spread compound uniformly and feather edges out |

# BLOCK C RESIDENTIAL, INSTITUTIONAL AND COMMERCIAL PAINTS AND COATINGS

**Trends**

Environmentally friendly products are being used more widely. There are new products such as washable flat paint, colour changing ceiling paint, and low or zero VOC paint. Manufacturers have developed water-borne pigments that allow superior coverage with fewer coats such as self-priming paints or coatings.

**Related Components (including, but not limited to)**

Architectural paints (oil, alkyd, acrylic, ceramic, water-borne), architectural coatings (lacquers, glazes), sealers, primers, undercoats, solvents/thinners, driers, colorants, high performance coatings (acrylic, epoxies, urethanes, varnishes, acoustical, lacquers, elastomeric, polyurethane, intumescent), reinforcing mesh, leaf (gold, silver, bronze), texture, crack fill.

**Tools and Equipment**

See Appendix A.

## Task 10 Prepares for application of residential, institutional and commercial paints and coatings.

**Context**

This task encompasses the preparation of paints and coatings for application to a substrate. It also covers the installation of reinforcing mesh.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of architectural paints and coatings such as water-borne, acrylic and alkyds |
| K 2 | components of paint and coatings such as binder, pigment and vehicle |
| K 3 | types of solvents such as aromatic, alcohol and blended |
| K 4 | paint and coating application considerations such as substrates and drying times |
| K 5 | product information and specifications such as MSDS and product data sheets |
| K 6 | environmental conditions such as ambient temperature and humidity |
| K 7 | types of high performance coatings such as intumescent, water-borne epoxies, urethanes, zinc-rich and moisture cured |

| | |
|---|---|
| K 8 | types of reinforcing mesh such as fibreglass, metal lath and cloth |
| K 9 | application techniques for reinforcing mesh |
| K 10 | layout design and pattern for decorative finishes |

---

**Sub-task**

**C-10.01** **Prepares residential, institutional and commercial paints and coatings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-10.01.01 | match colour according to job specifications |
| C-10.01.02 | mix paints or coatings according to product data sheet, using tools such as stir sticks or mixers, to ensure adherence, visual appearance and drying time |
| C-10.01.03 | thin product according to product data sheet for application |
| C-10.01.04 | strain product to ensure uniform application |
| C-10.01.05 | stir, box, shake and mix paints and coatings to ensure uniformity |

---

**Sub-task**

**C-10.02** **Installs residential, institutional and commercial reinforcing mesh.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-10.02.01 | apply bonding primer to substrate without profile |
| C-10.02.02 | apply primer to bare substrate with profile |
| C-10.02.03 | lay mesh manually, uniformly overlapping to maintain integrity and strength, and according to pre-calculated measurements |
| C-10.02.04 | overlap reinforcing mesh to ensure complete coverage |
| C-10.02.05 | calculate ratios to mix base with catalyst according to product data sheets |
| C-10.02.06 | saturate reinforcing mesh with coating until wetted out using tools such as brushes, rollers or spray equipment |
| C-10.02.07 | remove air bubbles using aluminium and spiked (porcupine) rollers to avoid failures in the reinforcing mesh |

## Task 11 — Applies residential, institutional and commercial paints and coatings.

**Context**

Architectural paints and coatings are applied by brushing, rolling, and spraying. The method of application depends on accessibility, desired effect and productivity.

High performance coatings are designed for various purposes such as corrosion and fire resistance, abrasion resistance and flexibility. They may be applied by brush, roller, applicator or spray equipment.

**Required Knowledge**

| | |
|---|---|
| K 1 | types, sizes and uses of brushes such as angled sash and radiator |
| K 2 | types of bristles such as natural and synthetic |
| K 3 | types of applicators such as pads and foam squeegees |
| K 4 | types of paints or other coatings that can be applied by brush, roller, applicator or spray equipment |
| K 5 | types and sizes of roller cages and sleeves |
| K 6 | nap/pile of sleeve |
| K 7 | brushing, rolling, applicator and spraying techniques |
| K 8 | types of spray systems such as airless, conventional, HVLP, electrostatic and specialized spray equipment |
| K 9 | overspray and shielding |
| K 10 | product data sheet information such as pot life, induction times and viscosity |

**Sub-task**

**C-11.01 — Applies residential, institutional and commercial paints and coatings with brushes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-11.01.01 | access hard to reach areas using tools and equipment such as brush extenders, radiator brushes and extension handles |
| C-11.01.02 | lay off and feather paint using techniques such as brushing dry to wet |
| C-11.01.03 | cut in a straight line to ensure a clean edge using brushes |
| C-11.01.04 | maintain uniform coating according to material type such as alkyd, varnish and latex |

**Sub-task**

**C-11.02** **Applies residential, institutional and commercial paints and coatings with rollers.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

C-11.02.01 access hard to reach areas using tools and equipment such as extension handles and roller cages

C-11.02.02 maintain uniform coating using techniques such as back rolling and W pattern

C-11.02.03 maintain a wet edge according to drying time of material

---

**Sub-task**

**C-11.03** **Applies residential, institutional and commercial paints and coatings with applicators. (NOT COMMON CORE)**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| no | yes | NV | yes | yes | yes | no | yes | yes | no | NV | NV | NV |

**Key Competencies**

C-11.03.01 select applicator such as pad and foam squeegee according to manufacturers' product installation instructions

C-11.03.02 access hard to reach areas using tools and equipment such as extension handles

C-11.03.03 maintain uniform coating using techniques as described in manufacturers' product installation instructions

C-11.03.04 maintain a wet edge according to drying time of material

**Sub-task**

**C-11.04** **Applies residential, institutional and commercial paints and coatings with spray equipment.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-11.04.01 | select type and size of tip according to substrate, size and type of job, and material type such as lacquer, epoxies, alkyd, varnish and latex |
| C-11.04.02 | access hard to reach areas using tools and equipment such as gun extensions |
| C-11.04.03 | maintain uniform coating using techniques such as using 50% overlap, maintaining motion while spraying, triggering and keeping a consistent distance from substrate |
| C-11.04.04 | make adjustments such as fluid and air flow, pressure control, tip size, paint viscosity and temperature to achieve desired atomization and ensure consistent spray pattern |
| C-11.04.05 | use shielding while spraying to minimize and contain overspray |
| C-11.04.06 | spray edge (banding) then face of substrates such as doors and tables to avoid dry spray |

## Task 12 Applies decorative/specialty finishes.

**Context** Painters and decorators apply specialty finishes on substrates for decorative purposes.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of paints that can be applied with sponges or rags |
| K 2 | various techniques such as positive and negative application |
| K 3 | paint viscosity |
| K 4 | natural random patterns (sea sponges) and artificial patterns (synthetic sponges) |
| K 5 | techniques used to produce the desired effects such as wood graining and marbling |
| K 6 | drying and setup times of finishes used |
| K 7 | tints and stains, their translucency, staining power and colour |
| K 8 | types of texture finishes such as stipple and knock-down |

| | |
|---|---|
| K 9 | types of finishes such as rolled and hammered |
| K 10 | materials used in gilded finishes such as silver, bronze and gold |
| K 11 | types of substrates such as wood, glass, plastic and metal |
| K 12 | layout and design using geometric calculations |
| K 13 | types of stencils such as polyester film, paper and metal |
| K 14 | types of graphics such as vinyl, peel-and-stick and paint-on |
| K 15 | composition of multi-spec coatings (acrylic latex suspended in lacquer) |
| K 16 | multi-spec coating application techniques |
| K 17 | compatibility of multi-spec coatings and substrates |

---

**Sub-task**

**C-12.01 Applies paints and coatings using decorative techniques.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-12.01.01 | cut and roll base coat according to project requirements |
| C-12.01.02 | ensure proper drying time between coats according to material used and working environment |
| C-12.01.03 | create pattern using positive application techniques such as sponging and striping and negative application techniques such as stippling and dragging to achieve desired effect, and according to project requirements |

---

**Sub-task**

**C-12.02 Creates faux finishes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| C-12.02.01 | apply base coat to match background colour of the effect to be imitated |
| C-12.02.02 | apply colour coat such as glaze/colour mix for marble, and primary grain colour for wood, to produce desired effect |
| C-12.02.03 | create intricate effect details such as cracks in wood knots using a nail, and veins of marble using a feather/badger blender |

C-12.02.04 apply finish coat according to job requirements to protect finish

C-12.02.05 apply multiple layers of finish coat to produce the illusion of structure, depth and texture

---

**Sub-task**

**C-12.03 Applies gilding.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| no | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

C-12.03.01 apply adhesive such as water size or oil size to substrate using tools such as camel hair brush

C-12.03.02 position sheets on adhesive before adhesive dries using a camel hair brush or gilding tip brush

C-12.03.03 smooth down and polish finish to blend in and create a uniform look

---

**Sub-task**

**C-12.04 Applies stencils and graphics.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| no | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

C-12.04.01 create stencil or graphic of image using materials such as cardboard and bristol board, or equipment such as computers

C-12.04.02 position stencil or graphic on substrate according to measurements in job plan using tools such as painter's tape, plastic smoothers, measuring tapes, chalk lines, levels and pencils

C-12.04.03 create template from materials such as cardboard, plastic and metal, and tape stencil to template to protect surrounding area from paint splatter

C-12.04.04 dab or spray on paint using tools such as stencil brushes or spray equipment

C-12.04.05 remove stencil template when done without damaging substrate

**Sub-task**

**C-12.05 Creates textured finishes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

C-12.05.01 mix texture coating such as stucco, powdered textured finishes and drywall compound using tools such as a low rpm drill or mixer to create an even consistency, texture and grade

C-12.05.02 uniformly produce varying degrees of stipple, both random and systematic patterns, using texturing equipment such as stipple guns, hawks and trowels, texture rollers, and sponges

**Sub-task**

**C-12.06 Applies multi-spec coatings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

C-12.06.01 pre-test spray pattern on a sample to confirm uniform finish

C-12.06.02 apply base coat using spray gun, brush or roller

C-12.06.03 spray multi-spec coating uniformly in a criss-cross pattern, using equipment such as conventional spray equipment with an internal mix gun

## BLOCK D — WALL COVERINGS

| | |
|---|---|
| **Trends** | Trends in wall coverings tend to be cyclical according to design preferences. Application techniques have not changed substantially. |
| **Related Components (including, but not limited to)** | Paper-backed vinyls, fabric-backed vinyls, acoustical fabrics, hand/block prints, flocks, embossed paper, pulps, weaves, fabrics, foils, cork, micas, strands, wall carpets, wallpapers, murals, coatings, mica-coated liners, lining paper, veneer, white boards, cellulose pastes, clay-based adhesives, vinyl adhesives, contact cement, sizes. |
| **Tools and Equipment** | Hand tools, power tools (dehumidifiers, electric cords, fans, heat guns, lights, mixers, drills, steam strippers, vacuum cleaners), measuring and testing equipment (calculators, measuring cups, plumb bob, measuring tapes, sling psychrometers, thermometers), access equipment, hoisting and lifting equipment, PPE and safety equipment, and specialty wall covering tools. |

### Task 13 — Prepares for application of wall coverings.

**Context**

Painters and decorators must treat the substrate before applying wall coverings. This is done to ensure that the surface is smooth and sealed. It is crucial to ensure temperatures and humidity levels are to manufacturers' specifications. The wall covering material must be inspected, acclimatized, measured and cut in preparation for hanging.

**Required Knowledge**

| | |
|---|---|
| K 1 | run and lot number order |
| K 2 | wall covering patterns such as straight, random and drop |
| K 3 | techniques for hanging wall coverings to match patterns |
| K 4 | where to start and finish |
| K 5 | types of wall covering materials |
| K 6 | types of adhesives and their uses |
| K 7 | methods for pre-soaking, folding, booking and storing prior to hanging |
| K 8 | how adhesion of material to substrate is affected by temperature and humidity |
| K 9 | alternating rolls (bolts) of wall covering for drop patterns |

**Sub-task**

**D-13.01 Treats surfaces for wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-13.01.01 | repair imperfections in substrate such as dents and scratches using drywall compounds or fillers |
| D-13.01.02 | seal water, ink and marker stains using stain blocking primer to prevent bleed through |
| D-13.01.03 | apply coatings such as alkyd paints, latex paints and wall size to prevent absorption of adhesive and allow time for proper positioning of wall coverings |

**Sub-task**

**D-13.02 Lays out surface.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-13.02.01 | determine start and finish according to room layout and location of fixed objects in the room such as fireplaces and doors |
| D-13.02.02 | draw straight pencil line for starting point of wall coverings using tools and equipment such as levels, plumb bobs and straight edges |
| D-13.02.03 | keep wall coverings plumb and pattern consistent in situations such as passing a corner and working around wall openings |

**Sub-task**

**D-13.03** **Prepares wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-13.03.01 | measure and cut sheet of wall covering according to wall covering patterns such as straight, drop and random to ensure alignment with the previously cut sheet and to minimize waste |
| D-13.03.02 | reverse every other sheet to ensure uniformity of random pattern |
| D-13.03.03 | activate adhesive on pre-pasted wall coverings according to manufacturers' specifications and considering factors such as soaking and booking times, and minimizing expansion and contraction of wall coverings once placed on wall |

## Task 14 Applies wall coverings.

**Context**

Painters and decorators apply different types of wall coverings such as wallpaper, vinyl, veneer and fabric. They also repair damaged wall coverings.

There are many factors to consider when installing wall coverings such as temperature, humidity, air movement, types of wall coverings, and types of adhesives and substrates. These factors affect materials as well as application techniques.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of wall coverings such as wallpaper/borders, paintable embossed paper, photographic murals, paper-backed fabrics, grass cloths, silks, natural weaves, burlaps, acoustical fabric (with or without backing) and rigid wall coverings (cork, wood veneer, tack boards and white boards) |
| K 2 | types of adhesives and their uses |
| K 3 | adhesive application techniques such as brushing, rolling and using paste machines |
| K 4 | effect of environmental conditions such as temperature and air movement on drying time and material |
| K 5 | patterns and reasons for reversing some materials every alternate length |
| K 6 | tools such as razor knives, sled knives, smoothing brushes, seam rollers and smoothers, and their uses |

| | |
|---|---|
| K 7 | various techniques for installing wall coverings |
| K 8 | characteristics of certain materials such as fabrics, grass cloths, burlaps and types of backing |

---

**Sub-task**

**D-14.01 Applies adhesives.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-14.01.01 | set up paste tables to lay wall covering while applying adhesive |
| D-14.01.02 | brush or roll adhesive onto wall covering or substrate according to manufacturers' specifications ensuring complete coverage and book |
| D-14.01.03 | determine spreading rate considering factors such as material weight, thickness and temperature |
| D-14.01.04 | place adhesive on vinyl using paste machine and ensuring complete coverage |

---

**Sub-task**

**D-14.02 Installs vinyl wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-14.02.01 | place vinyl on substrate according to pre-determined layout |
| D-14.02.02 | smooth vinyl using a smoother to eliminate air bubbles |
| D-14.02.03 | trim excess materials top and bottom |
| D-14.02.04 | remove excess glue from surface of vinyl using a rag or sponge |
| D-14.02.05 | place second sheet overlapping previous sheet and double cut or butt joint to hide seams |
| D-14.02.06 | smooth out seams using tools such as plastic smoothers and seam rollers |

**Sub-task**

**D-14.03 Installs fabric and natural material wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-14.03.01 | place fabric and natural material wall coverings such as foils, silks and flocks on substrate according to pre-determined layout |
| D-14.03.02 | handle fabric and natural material wall coverings with care according to manufacturers' specifications and avoiding stretches, runs, tearing, creasing, wrinkling and soiling |
| D-14.03.03 | smooth fabric and natural material wall coverings using a smoother to eliminate air bubbles and to avoid creasing and wrinkling |
| D-14.03.04 | trim excess materials top and bottom |
| D-14.03.05 | remove excess glue on natural material wall coverings using a rag or sponge |
| D-14.03.06 | place second sheet overlapping previous sheet and double cut or butt joint to hide seams |
| D-14.03.07 | smooth out seams using a smoothing brush |

**Sub-task**

**D-14.04 Installs rigid wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-14.04.01 | place rigid wall coverings such as cork board and veneer wood on substrate according to pre-determined layout |
| D-14.04.02 | wet down veneer when excessively dry to facilitate ease of installation |
| D-14.04.03 | smooth rigid wall covering using as smoother to eliminate air bubbles |
| D-14.04.04 | trim excess materials top and bottom |
| D-14.04.05 | remove excess glue on rigid wall covering using a rag or sponge |
| D-14.04.06 | place second sheet overlapping previous sheet and double cut or butt joint to hide seams |
| D-14.04.07 | smooth out seams using a smoother |

**Sub-task**

**D-14.05 Repairs existing wall coverings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| D-14.05.01 | remove air bubbles using a syringe |
| D-14.05.02 | re-seal open seam using seam sealer |
| D-14.05.03 | stain tears using coloured marker to hide tear |
| D-14.05.04 | remove and replace damaged wall covering |

## BLOCK E — WOOD FINISHES

| | |
|---|---|
| **Trends** | The use of environmentally-friendly products such as low-VOCs and zero-VOCs is increasing. Water-based finishing products are continually being improved while factory based finishes are becoming more common. New regulations regarding the recycling and disposal of finishing products are ongoing. |
| **Related Components (including, but not limited to)** | Furniture, cabinets, siding, windows, doors, frames, hardwood floors, trim, panelling, stairs and stairway components, exterior wood siding, plywood, wood finishes (shellacs, lacquers, stains, Danish oils, lemon oils, varnishes, waxes), universal colorants. |
| **Tools and Equipment** | Hand tools, power tools, spray equipment, access equipment, PPE and safety equipment. |

### Task 15 — Prepares for wood finishing applications.

**Context** Painters and decorators prepare the surface by repairing imperfections, conditioning and sealing the surface and applying wood filler to ensure a uniform finish and good adhesion of top coats.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of conditioners such as water and manufacturer specific wood conditioners |
| K 2 | types of sealers such as shellacs, varnishes, lacquers, sanding sealers, polyurethane and urethane |
| K 3 | types of wood fillers such as paste wood filler, spackling, putty, plastic wood and putty sticks |
| K 4 | types of stains such as semi-transparent, transparent and solid |
| K 5 | woods that may require conditioning such as open-grained and close-grained softwoods and hardwoods |
| K 6 | reasons for conditioning woods such as to provide even absorption of stain or finishes, and to provide a uniform finish |
| K 7 | manufacturers' specifications such as drying time, and application rate and method |
| K 8 | when to apply conditioners, stains or sealers |

| | |
|---|---|
| K 9 | sequence of application of conditioners, stains and sealers |
| K 10 | sanding sequence |
| K 11 | matching draw downs |

---

**Sub-task**

**E-15.01 Conditions wood surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| E-15.01.01 | dampen wood surface with water to raise the grain to sand off prior to conditioning |
| E-15.01.02 | apply wood conditioning products according to manufacturers' specifications to open the grain to promote even absorption of stain or finishes, and to provide a uniform finish |

---

**Sub-task**

**E-15.02 Applies wood fillers.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| E-15.02.01 | level out grain and fill holes and imperfections with wood fillers using application tools such as putty knives, brushes and cloths, or by hand |
| E-15.02.02 | match wood finish using pre-coloured wood fillers or hand-mixed wood fillers |

**Sub-task**

**E-15.03 Seals wood surfaces.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

E-15.03.01 apply sealers using brushes, rollers and sprayers according to project specifications

E-15.03.02 verify that sealer is compatible with substrate and successive coatings based on manufacturers' specifications

**Sub-task**

**E-15.04 Prepares wood finishing products.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

E-15.04.01 adjust colour of wood finishes by adding universal colorants or dyes

E-15.04.02 stir wood finishes according to manufacturers' specifications

E-15.04.03 adjust viscosity of wood finishes by adding thinner according to manufacturers' specifications to optimize flow of application

## Task 16 Finishes wood surfaces.

**Context** Wood finish is applied to protect and enhance the wood surface and to increase the durability of the wood. The finish can be brushed on, sprayed on, or wiped on and off.

**Required Knowledge**

K 1 types of hardwoods such as walnut, oak and teak, and types of softwoods such as fir, pine and spruce

K 2 types of open-grained woods such as oak and mahogany, and types of closed-grained woods such as cherry, birch and maple

K 3 types of wood finishes such as water-based, alcohol-based, lacquer-based and oil-based

| | |
|---|---|
| K 4 | wood finishes that can be brushed on such as grain filler, penetrating stains, pigmented stains and oil stains |
| K 5 | wood finishes that can be sprayed on such as non-grain raising stains, spirit stains and penetrating oil stains |
| K 6 | wood finishes that can be wiped on such as Danish oils, lemon oils and stains |
| K 7 | interior and exterior wood finish products |
| K 8 | types and sizes of brushes such as angled sash and radiator |
| K 9 | types of bristles such as natural and synthetic |
| K 10 | brushing techniques for wood finishes |
| K 11 | types of sprayers such as airless, conventional and HVLP |
| K 12 | spraying techniques such as overlap and even strokes |
| K 13 | required cloth materials and techniques for wiping on wood finishes |
| K 14 | manufacturers' specifications such as temperature and humidity allowances, thinning ratio, and drying and recoating times |
| K 15 | compatibility of finishes |
| K 16 | colour matching methods |

---

**Sub-task**

**E-16.01 Brushes on wood finishes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| E-16.01.01 | apply wood finish uniformly ensuring adequate coverage |
| E-16.01.02 | wipe off excess wood finish product to achieve desired finish |

**Sub-task**

**E-16.02 Wipes on wood finishes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

E-16.02.01 apply wood finish ensuring adequate coverage using cloth material such as lamb's wool, cheese cloth and cotton rags

E-16.02.02 wipe off excess wood finish after allowing the product to penetrate wood surface according to manufacturers' specifications or desired finish

**Sub-task**

**E-16.03 Sprays on wood finishes.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | yes | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

E-16.03.01 thin wood finishes according to manufacturers' specifications to obtain a uniform finish with adequate coverage

E-16.03.02 apply wood finishes using spray equipment such as HVLP, conventional and airless while ensuring proper atomization

# BLOCK F INDUSTRIAL PAINTS AND COATINGS

| | |
|---|---|
| **Trends** | More 100% solid coatings are being introduced to achieve lower VOCs. Inline heaters are increasingly being used. These lower the viscosity of coatings and are used as an alternative to chemical thinners. |
| **Related Components (including, but not limited to)** | Industrial high performance coatings (acrylic, epoxy, urethane, varnish, acoustical, lacquer, elastomeric, polyurethane, intumescent), sealers, primers (inorganic zincs), undercoats, solvents/thinners, driers, colorants, polyurea. |
| **Tools and Equipment** | See Appendix A. |

## Task 17 Prepares for application of industrial paints and coatings.

**Context** Painters and decorators must prepare for the application of industrial paints and coatings by mixing, thinning, heating and agitating. This task also includes the installation of fibre-reinforced plastic (FRP) which is used in industrial applications such as tank liners and explosion-proof areas to significantly strengthen the coatings.

**Required Knowledge**

| | |
|---|---|
| K 1 | types of industrial paints and coatings and their properties and applications such as exposure to heat, moisture, water, acids and UV |
| K 2 | specialized equipment for industrial paints and coatings |
| K 3 | substrate and its immediate environment |
| K 4 | project and product specifications such as induction time, pot life, and thinners and equipment to be used |
| K 5 | specialized safety procedures and equipment such as explosion-proof lighting, and ventilation and respiratory equipment |
| K 6 | application equipment for FRP such as specialized rollers and spiked (porcupine) rollers |

**Sub-task**

**F-17.01 Prepares industrial paints and coatings.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | no | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| F-17.01.01 | determine mil thickness from project specifications and product data sheets |
| F-17.01.02 | determine mixing information from product data sheet such as ratios, pot life, induction time and additives |
| F-17.01.03 | mix paints and coatings according to product data sheet using equipment such as pneumatic paddles and mixing sticks |
| F-17.01.04 | verify coating temperature meets requirements of product data sheet |

**Sub-task**

**F-17.02 Installs fibre reinforced plastics (FRP).**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | no | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| F-17.02.01 | apply bonding primer to substrates without profile |
| F-17.02.02 | verify profile and cleanliness of substrate |
| F-17.02.03 | apply primer to bare substrate with profile |
| F-17.02.04 | cut matting to fit required substrate area |
| F-17.02.05 | overlap matting to ensure complete coverage |
| F-17.02.06 | calculate ratios to mix resin with catalyst according to product data sheets |
| F-17.02.07 | saturate mesh with resin using tools such as brushes, rollers, and spray equipment |
| F-17.02.08 | remove air bubbles using aluminium and spiked (porcupine) rollers to avoid failures in the FRP |
| F-17.02.09 | apply second resin coat to seal FRP and apply wax coat to prevent contact between product and FRP |

## Task 18 Applies industrial paints and coatings.

**Context** Industrial coatings are designed for various purposes such as corrosion resistance, fire resistance, abrasion resistance and flexibility. They may be applied by brush, roller or spray equipment. Their application requires skills and training in specialized equipment and processes. Safety considerations are of particular importance to this task.

**Required Knowledge**

| | |
|---|---|
| K 1 | product data sheet and project specification information such as induction time, pot life, tip sizes and thinners |
| K 2 | specialized industrial painting power tools such as plural pumps, airless spray pumps with inline heaters, power rollers and conventional spray equipment |
| K 3 | specialized industrial painting hand tools such as squeegees, spiked (porcupine) rollers, brushes and rollers |
| K 4 | types of industrial paints and coatings and their properties and applications such as exposure to heat, moisture, water, acids and UV |
| K 5 | specialized safety procedures and equipment such as explosion-proof lighting, and ventilation and respiratory equipment |
| K 6 | overspray and effects on surrounding environment |

**Sub-task**

**F-18.01 Applies industrial paints and coatings with hand tools.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | no | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| F-18.01.01 | verify substrate temperature, humidity and cleanliness according to product data sheets and project specifications |
| F-18.01.02 | brush, roll or squeegee on industrial paints and coatings according to project requirements |
| F-18.01.03 | apply uniform coating and measure mil thickness using wet mil gauge |
| F-18.01.04 | perform visual inspection for paint runs, sags and misses during the application |
| F-18.01.05 | measure dry film thickness after specified cure time |
| F-18.01.06 | repair runs, sags and misses by abrading cured coatings and recoating |

**Sub-task**

**F-18.02 Applies industrial paints and coatings with power tools.**

| NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| yes | yes | NV | yes | yes | no | yes | yes | yes | yes | NV | NV | NV |

**Key Competencies**

| | |
|---|---|
| F-18.02.01 | verify substrate temperature, humidity and cleanliness according to product data sheets and project specifications |
| F-18.02.02 | spray industrial paints and coatings according to project requirements |
| F-18.02.03 | adjust pump pressure for atomization and fan of paints and coatings |
| F-18.02.04 | plan sequence of spraying to avoid runs and sags |
| F-18.02.05 | stripe coat leading edges and welds to ensure adequate coverage |
| F-18.02.06 | overlap and cross hatch to apply uniform spray coating |
| F-18.02.07 | apply uniform coating and measure film thickness using wet mil gauge |
| F-18.02.08 | perform visual inspection for paint runs, sags and misses |
| F-18.02.09 | measure dry film thickness after specified cure time |
| F-18.02.10 | repair runs, sags and misses by abrading cured coatings and recoating |

# APPENDICES

# APPENDIX A TOOLS AND EQUIPMENT

### Hand Tools

adjustable wrenches (various sizes)
air hose repair kits
aluminium rollers
Allen keys
aprons
broad knives
brooms
brush and roller spinners
brush extenders
brushes (various types of natural and synthetic bristle brushes and various types of handles)
can hooks
caulking guns
chalk lines
chisels
cheese cloths
cutters
drop sheets
duct tape
dust pans
dusters
extension poles
files
hammers
hand masking machine
hawk
leather chamois
levels (carpenter's, laser)
masking tape
mop
nail punch
nut drivers
pails
paint pads
paint strainers
pencils
pliers
plumb bobs
pole sanders
putty knives
rags
razor blades
roller cages
roller grids
roller sleeves
sanding blocks
sanding sponges
sandpaper
scrapers
screwdrivers
shovel
spiked (porcupine) rollers
sponges
squeegees
steel wool
stir sticks
straight edge
tack cloths
tape holders
tarps/containments
trays
trowels
utility knives
wire brushes
wrench sets

### Power Tools and Pneumatic Tools

abrasive blasting equipment and components: deadman switches (electric or air), nozzles (venture, straight bore), blast cabinets, blasting pots, blast hoses, blasting hoods, hydroblast equipment, centrifugal blasting equipment
air chisels/scrapers
air dryers
compressors
computer/colour matching software
dehumidifiers
drills
dust collectors
fans
grinders (angle grinder, die grinder)
heat guns
lighting (explosion-proof, halogen)
needle guns
paint agitators
plotters
pneumatic caulking guns
pneumatic mixers
pressure feed rollers
printers
rotary peeners
sanders
vacuum cleaners

### Spray Equipment

air-assisted airless spray equipment
airless spray equipment
conventional spray equipment
electrostatic spray equipment
HVLP spray equipment
plural component spray pumps
texture spray machine
spray equipment components (compressors, inline heaters, pump filters, spray gun extensions, spray guns, spray lines, spray tips, washers and housing, spray whips and swivels, etc.)
spray hoods

### Measuring and Testing Equipment

adhesion tester
air monitoring equipment
architectural rule
blotter test kit
calculator
clear tape (contaminant tester)
digital temperature gun
dry film thickness gauge
holiday detector
humidity meter
lead test kit
measuring cup
measuring tape
moisture meter
profile gauge/replica tape
pull test kit
salt test kit
sling psychrometer
coating temperature probe
thermometers
viscosity cup
wet mil gauge
yard stick

### Access Equipment and Rigging, Hoisting and Lifting Equipment

aerial platforms (boom and scissor lifts)
beam rollers
boatswain's chair
ladder jacks
ladders
mechanical scaffolds
planks (aluminium, wood)
platforms
rigging components (straps, slings, chains and shackles)
rolling scaffolds
stationary scaffolds
spider
stilts
swing stages
transfer chains

### Personal Protective Equipment (PPE) and Safety Equipment

air conditioners/heaters for fresh air hood
air purifiers
blast-spray hood
coveralls
ear plugs and muffs
exhaust fan
eye wash facilities
face shields
fall arrest equipment
fire blankets
fire extinguishers
fire hoses
first aid equipment
fresh air hood
fume and toxic gas detector
gloves
goggles
hard hat
knee pads
latex gloves
dust masks
respirators (vapour, particle)
rope grabs
safety glasses
safety vest
self-contained breathing apparatus (SCBA)
signage
spill kits
steel toed boots
toe guards
two-way radios
warning tapes

### Specialty Wall Covering Tools

glue gun
hypodermic needle/syringe
paste brush
paste machine
paste table
perforator
plastic smoother
seam roller
shears/scissors
sled knives
smoothing brush
steam stripper
trimming wheels
vinyl table
water trough/dams

**Specialty Finishing Tools and Equipment**

artistic brushes
badger blender
camel hair brush
check roller
dragger
fan brushes
fitch brushes
flogging brushes
gilding tip brushes
goose feathers
graining combs
mottling brushes
newspaper and plastic sheets
notched spreaders
piped overgrainer
pounce wheels
projectors
rocker grainer
sea sponges
stencil brush
stencil knife
stencils
stipplers
sword stripers

# APPENDIX B GLOSSARY

| | |
|---|---|
| **abrasive blasting** | process used to clean a surface or create a profile with abrasive media such as sand, steel shot, beads, glass, soda or walnut shells |
| **acclimatize** | bringing a product to ambient temperature before use |
| **acrylic latex paint** | water-thinned paint which employs synthetic acrylic resin as the majority of the binder |
| **airless spraying** | process of atomization of paint by forcing it through an orifice at high pressure; the effect is often aided by the vaporization of the solvents, especially if the paint has been previously heated |
| **alkyd paint** | paint which contains a synthetic alcohol-based resin; alkyd paint must be thinned and cleaned with solvent or paint thinner; it can be used in place of oil-based paints |
| **alligatoring** | paint film cracking that makes the surface look like alligator skin |
| **angled sash brush** | angled brush used for cutting-in |
| **back priming** | applying a coat of paint to the back of woodwork or exterior siding to prevent moisture from entering the wood and causing the grain to swell or wood to warp |
| **backing rod** | foam plastic rod inserted in a joint to be sealed to regulate the depth of sealant |
| **bleach** | product creating a chemical process to lighten wood finishes and/or to create a uniform colour of wood |
| **blistering** | forming of bubbles or pimples on the painted surface; blistering is caused by moisture in the substrate, by paint having been applied before the previous coat was dry, and by excessive heat during or after application |
| **box** | pouring two or more paints together to mix in order to achieve a consistent colour and viscosity |
| **broad knife** | flexible bladed knife used to apply fillers |
| **catalyst** | additive added to base to chemically activate the paint or coating for the purpose of curing |

| | |
|---|---|
| **checking** | kind of paint failure in which many small cracks appear on the surface of the paint |
| **corner bead** | metal, paper or plastic covering protecting and reinforcing corners of drywall |
| **cracking** | splitting of a dry paint or varnish film, usually a result of aging or movement of the substrate; different forms are hair-line cracking, checking, crazing, grain cracking, or alligatoring |
| **draw down** | sample panel created by applying paint being used in order to visualize finished product for comparison and approval |
| **drier** | paint ingredient that aids the drying or hardening of the film |
| **efflorescence** | deposit of salts that remains on the surface of masonry, brick or plaster when water has evaporated |
| **eggshell** | gloss range between flat and semi-gloss; sheen closely resembles the lustre of an eggshell; note that eggshell is a degree of gloss, not a colour |
| **elastomeric** | flexible high performance coating used to bridge fractures in concrete or stucco |
| **electrostatic spraying** | paint spraying process using electrically charged particles in the paint and a grounded substrate to significantly reduce overspray |
| **emulsion** | preparation where minute particles of one liquid such as oil are suspended in another such as water; used for poly-mix paint in spraying techniques |
| **enamel** | paint that forms an especially smooth, hard film; enamels may be obtained in a full range of glosses and can be either latex, alkyd or oil |
| **epoxy** | product made from synthetic resin derived from petroleum; epoxies, which are generally cured by catalysts, are perhaps the most durable of all coatings |
| **etching** | to wear away or roughen a substrate with an acid or other chemical agent or with a fine abrasive prior to painting to increase adhesion |
| **faux finish** | technique used to change surfaces into appearing to be of a different material; for instance, to make a wall look like granite, marble or a wood grain |
| **feathering** | process used to blend a small area into its surroundings after spot-priming, applying filler or sanding off edges of old paint |

| | |
|---|---|
| **filler** | ready-mixed paste or powder used for repairing small holes and cracks in the surface to be painted |
| **film thickness** | depth or thickness of the dry coating in millimetres |
| **fire retardant** | coating which will reduce flame spread, resist ignition when exposed to high temperature, or insulate the substrate and delay damage to the substrate |
| **fish eyes** | paint film defect caused by contaminants such as oil or water deposits |
| **flash point** | temperature at which a coating or solvent produces vapours that are capable of being ignited |
| **flashing** | paint film defect caused by inadequate coverage or uneven absorption |
| **flat paint** | paint with no gloss even when the surface is viewed from an angle; flat finish has even less gloss than an eggshell finish; flat paint is less durable than higher gloss paint |
| **galvanic action** | corrosion caused by dissimilar metals being in contact with each other |
| **gilding** | applying metal leaf (gold, palladium, brass, aluminium) for decorative effects |
| **glaze** | transparent or translucent coatings applied over a painted surface to produce blended effects of their colours |
| **gloss** | ability of the finished surface to reflect light in a mirror-like manner; the higher the gloss, the more scrubbable and durable the finish; degrees of gloss include flat, velvet, eggshell, low lustre, semi-gloss and high gloss |
| **graining** | simulating the grain of wood by means of specially prepared colours or stains and the use of graining tools or special brushing techniques |
| **grout** | fluid mortar mixture consisting of cement and water with or without aggregate |
| **hoarding** | tall screen or fence used to screen off and contain a construction site or work area |
| **holiday tester** | specialty tool used to detect pinholes and flaws in coatings on conductive substrates |
| **honeycomb (bug holes)** | concrete that, due to lack of the proper amount of fines or vibration, contains abundant interconnected voids or cavities |

| | |
|---|---|
| **hot spots** | incompletely cured lime spots that bleed through the coating on a plastered wall |
| **induction time** | time interval that must elapse after mixing the components of a multi-component paint before application can begin; also known as sweat-in time |
| **intumescent coating** | fire retardant coating which, when heated, becomes plastic and produces non-flammable gasses, such as carbon dioxide and ammonia; the gasses are trapped by the film, converting it to an expanding foam; at this stage, the film solidifies, resulting in a thick, highly insulating layer of carbon, which effectively protects the substrate from fire |
| **knock-down** | a technique used to flatten the top of textured finishes for a unique look |
| **lacquer** | clear or pigmented coating that dries quickly by evaporation of solvent; transparent protective film; can be matte, eggshell or gloss |
| **latex** | water-based paint product; latex has more permeability than oils and it eliminates odour and dangers associated with organic solvents; latex is fast-drying, has good colour retention, is more resistant to blistering and cleans up easily |
| **lifting** | raising and lifting of the surface as a result of the softening and penetration of a previous film by solvents in the paint being applied over it |
| **"maintain a wet edge"** | process of stroking or rolling the paint from dry areas back into wet areas to ensure a coat of paint always blends back into itself |
| **marbling** | technique used on surfaces to give appearance of marble |
| **masonry** | mineral-based building material such as cement, mortar, stone, brick and stucco |
| **mildewcide** | chemical agent, often included in exterior paints and caulks, that discourages mildew growth on the paint surface |
| **mill scale** | coating on new steel created by the hot roll process; after weathering, it appears flaky and scaly; must be removed before applying coating |
| **muriatic acid** | chemical used to etch and neutralize concrete substrates prior to applying paints and coatings; it is a diluted solution of hydrochloric acid |
| **oil paint** | paint which is oil-based and can be diluted with solvent; paint that contains drying oil, oil varnish or oil-modified resin as the film-forming ingredient |

| | |
|---|---|
| **orange peel** | film having the texture of an orange |
| **peeling** | detachment of paint from the surface in ribbons or sheets; like flaking, it is the result of loss of adhesion and film integrity; peeling can be intercoat, or down to the substrate |
| **pigment** | finely ground, natural or synthetic, inorganic or organic, insoluble dispersed particles (powder) which, when dispersed in a liquid vehicle to make paint, may provide, in addition to colour, many of the essential properties of the paint: opacity, hardness, durability, and corrosion resistance; the term is used to include extenders, as well as white or colour pigments; the distinction between powders which are pigments and those which are dyes is generally considered to be on the basis of solubility: pigments being insoluble and dispersed in the material, dyes being soluble or in solution when used |
| **plural component coating** | coating that is applied using a method that proportions and mixes two or more components of a paint material in the process of delivering them to a spray gun |
| **polyurethane** | coatings ranging from hard glossy enamels to soft, flexible coatings; with thorough surface preparation, polyurethanes provide good to very good adhesion, hardness, flexibility and resistance to UV damage |
| **pot life** | period during which a catalyzed paint can be applied after it has been mixed |
| **primer** | coating applied to a substrate for the purpose of sealing, adhesion of subsequent coats, and corrosion control |
| **primer sealer** | priming system that minimizes or prevents the penetration of coats into the substrate |
| **putty knife** | flat-bladed, narrow metal tool for filling cracks and holes |
| **rag-rolling** | method of producing decorative, broken-colour effects by rolling a piece of crumpled fabric or paper over the wet surface |
| **recoat time** | minimum and/or maximum period of time between applications of coats of paint |
| **reinforcing mesh** | mesh used to reinforce surface by being embedded in paint or coatings |
| **resin** | natural or synthetic material that is the main ingredient of paint; it binds the ingredients together and improves the coat's adhesion to the surface |

| | |
|---|---|
| **runs and sags** | blemishes on the film caused by excessive flow of the coating, applying too heavy a coat of paint or thinning the paint too much |
| **satin finish** | gloss range between eggshell and semi-gloss |
| **sealer** | coating used to prevent excessive absorption of subsequent coats into a porous surface or to prevent stains from bleeding out of the substrate |
| **seam roller** | small wooden or plastic roller for use on wallpaper edges |
| **semi-gloss** | degree of gloss that is glossier than low lustre but not as glossy as high gloss |
| **shellac** | natural resin, usually in the form of thin flakes, derived from a resinous substance called lac; shellac is used to seal and finish floors, knots, etc. |
| **size** | liquid composition that prevents excessive absorption of paint or wallpaper adhesive into plaster, wallboard, or a similar porous interior surface |
| **sling psychrometer** | tool that accurately determines relative humidity |
| **solvent** | any liquid that can dissolve a resin; generally refers to the liquid portion of paints and coatings that lowers the viscosity of paints and coatings and evaporates as the paint and coating dries |
| **spackling compound** | powder mixed with water or ready-mix compound that is primarily used to fill large cracks in walls; it dries hard and can be sanded and painted, but does not tolerate much movement in the substrate |
| **spalling** | cracking, breaking or splintering of concrete and masonry surfaces usually due to heat |
| **spot-priming** | application of primer to spots that require additional protection or repair |
| **stain coating** | solution designed to colour a surface (wood or concrete) without hiding it; solid colour and latex stains are available; stains may be latex or oil-based |
| **stripper** | chemical compound in gel or liquid form used to remove old or damaged paint |
| **substrate** | surface that is being painted, coated, blasted, etc. |
| **synthetic brush** | paint brush with filaments that are made from a non-absorbent plastic material such as polyester or nylon, rather than animal hair; synthetic brushes are usually used for latex paint |

| | |
|---|---|
| **thinner** | liquid used to adjust viscosity or to modify other properties of paint, varnish and lacquer; thinner is used to thin and clean up paint |
| **tri-sodium phosphate (TSP)** | cleaning agent; after the TSP has been dissolved in water, the solution is used in surface preparation; TSP is used to remove gloss, dirt and grease from surfaces |
| **undercoat** | coat of paint applied beneath the topcoat |
| **urethane** | product resulting in a tough, chemical-resistant finish |
| **varnish** | clear finish in either matte, gloss or satin finish; broadly speaking, a translucent liquid which, when applied to a surface in a thin film, dries to a hard and more or less transparent finish |
| **viscosity** | degree of resistance to flow of paint, varnish, or other liquids; viscosity is often referred to as consistency; the higher the viscosity, the thicker the fluid; the lower the viscosity, the thinner the fluid |
| **volatile organic compound (VOC)** | hazardous additive in paint; any carbon compound that evaporates under standard test conditions; essentially, all paint solvents except water are VOCs |
| **wet edge time** | length of time during which a paint can be brushed before it becomes too dry to flow out and blend together |
| **wood filler** | filler for wood repairs |
| **wood graining** | paint effect used to imitate the grain of real wood |
| **wood veneer** | very thin sheet of finely grained or coloured woods used to decorate panels on doors and wainscoting, and to form bands or other patterns, which is a form of inlay, and also for covering the whole surface of more common or stronger woods |

# APPENDIX C — ACRONYMS

| | |
|---|---|
| **FRP** | Fibre-reinforced Plastic |
| **HVLP** | High Volume Low Pressure |
| **ISO** | International Standards Organization |
| **JSA** | Job Safety Analysis |
| **MSDS** | Material Safety Data Sheet |
| **NACE** | National Association of Corrosion Engineers |
| **OH&S** | Occupational Health and Safety |
| **PPE** | Personal Protective Equipment |
| **SSPC** | Society for Protective Coatings |
| **T&M** | Time and Materials |
| **TDG** | Transportation of Dangerous Goods |
| **TSP** | Tri-Sodium Phosphate |
| **VOC** | Volatile Organic Compound |
| **WHMIS** | Workplace Hazardous Materials Information System |

# APPENDIX D BLOCK AND TASK WEIGHTING

## BLOCK A COMMON OCCUPATIONAL SKILLS

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 20 | 20 | NV | 12 | 15 | 25 | 30 | 30 | 25 | 20 | NV | NV | NV | 22% |

Task 1 Performs safety-related functions.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 20 | 20 | NV | 22 | 20 | 35 | 20 | 10 | 20 | 20 | NV | NV | NV | 21% |

Task 2 Uses and maintains tools and equipment.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 40 | 20 | NV | 34 | 20 | 25 | 30 | 30 | 40 | 30 | NV | NV | NV | 30% |

Task 3 Performs routine trade practices.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 20 | 40 | NV | 27 | 10 | 20 | 20 | 40 | 30 | 20 | NV | NV | NV | 25% |

Task 4 Performs quality control assessments.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 20 | 20 | NV | 17 | 50 | 20 | 30 | 20 | 10 | 30 | NV | NV | NV | 24% |

## BLOCK B SURFACE PREPARATION

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 45 | 20 | NV | 23 | 35 | 25 | 30 | 23 | 25 | 30 | NV | NV | NV | 28% |

Task 5 Performs general surface preparation.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 25 | 20 | NV | 20 | 30 | 30 | 20 | 35 | 50 | 45 | NV | NV | NV | 30% |

Task 6 Prepares wood surfaces for paints, coatings and wall coverings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 25 | 20 | NV | 18 | 15 | 20 | 20 | 10 | 10 | 15 | NV | NV | NV | 17% |

Task 7 Prepares concrete and masonry surfaces.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 5 | 20 | NV | 19 | 15 | 15 | 20 | 15 | 15 | 10 | NV | NV | NV | 15% |

Task 8 Prepares metal surfaces.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 5 | 20 | NV | 23 | 15 | 15 | 20 | 15 | 10 | 20 | NV | NV | NV | 16% |

Task 9 Prepares plaster surfaces and drywall.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 40 | 20 | NV | 20 | 25 | 20 | 20 | 25 | 15 | 10 | NV | NV | NV | 22% |

**BLOCK C RESIDENTIAL, INSTITUTIONAL AND COMMERCIAL PAINTS AND COATINGS**

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 20 | 20 | NV | 21 | 25 | 25 | 10 | 20 | 20 | 20 | NV | NV | NV | 20% |

Task 10 Prepares for application of residential, institutional and commercial paints and coatings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 30 | 40 | NV | 45 | 45 | 40 | 40 | 20 | 50 | 15 | NV | NV | NV | 36% |

Task 11 Applies residential, institutional and commercial paints and coatings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 60 | 40 | NV | 44 | 45 | 40 | 40 | 45 | 30 | 60 | NV | NV | NV | 45% |

Task 12 Applies decorative/specialty finishes.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 10 | 20 | NV | 11 | 10 | 20 | 20 | 35 | 20 | 25 | NV | NV | NV | 19% |

**BLOCK D WALL COVERINGS**

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 5 | 8 | NV | 7 | 5 | 10 | 10 | 10 | 10 | 10 | NV | NV | NV | 8% |

Task 13 Prepares for application of wall coverings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 40 | 50 | NV | 50 | 50 | 40 | 50 | 45 | 30 | 30 | NV | NV | NV | 43% |

Task 14 Applies wall coverings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 60 | 50 | NV | 50 | 50 | 60 | 50 | 55 | 70 | 70 | NV | NV | NV | 57% |

**BLOCK E WOOD FINISHES**

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 5 | 10 | NV | 11 | 5 | 15 | 10 | 10 | 10 | 10 | NV | NV | NV | 10% |

Task 15 Prepares for wood finishing applications.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 50 | 50 | NV | 53 | 40 | 50 | 50 | 65 | 65 | 60 | NV | NV | NV | 54% |

Task 16 Finishes wood surfaces.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 50 | 50 | NV | 47 | 60 | 50 | 50 | 35 | 35 | 40 | NV | NV | NV | 46% |

**BLOCK F INDUSTRIAL PAINTS AND COATINGS**

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | National Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 5 | 22 | NV | 26 | 15 | 0 | 10 | 7 | 10 | 10 | NV | NV | NV | 12% |

Task 17 Prepares for application of industrial paints and coatings.

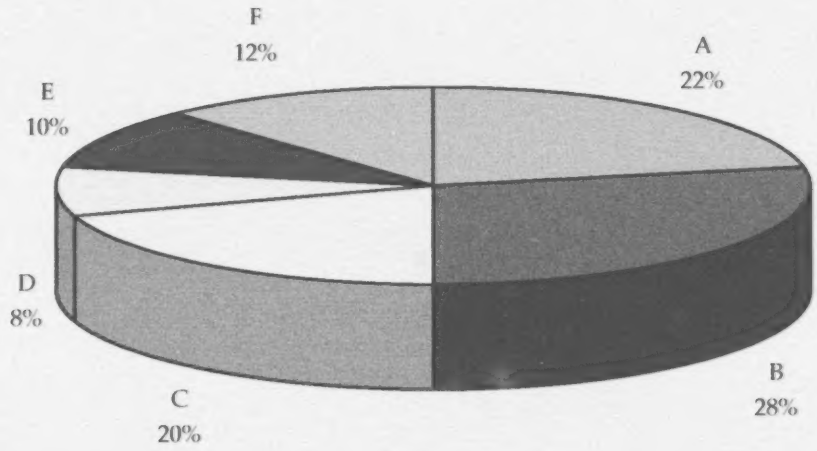
| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 60 | 50 | NV | 50 | 40 | 0 | 60 | 65 | 30 | 40 | NV | NV | NV | 49% |

Task 18 Applies industrial paints and coatings.

| | NL | NS | PE | NB | QC | ON | MB | SK | AB | BC | NT | YT | NU | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % | 40 | 50 | NV | 50 | 60 | 0 | 40 | 35 | 70 | 60 | NV | NV | NV | 51% |

# APPENDIX E

## PIE CHART*




**TITLES OF BLOCKS**

| | | | |
|---|---|---|---|
| BLOCK A | Common Occupational Skills | BLOCK D | Wall Coverings |
| BLOCK B | Surface Preparation | BLOCK E | Wood Finishes |
| BLOCK C | Residential, Institutional and Commercial Paints and Coatings | BLOCK F | Industrial Paints and Coatings |

*Average percentage of the total number of questions on an interprovincial examination, assigned to assess each block of the analysis, as derived from the collective input from workers within the occupation from all areas of Canada. Interprovincial examinations typically have from 100 to 150 multiple-choice questions.

# APPENDIX F

## TASK PROFILE CHART — Painter and Decorator

| BLOCKS | TASKS | SUB-TASKS | | | | |
|---|---|---|---|---|---|---|
| A - COMMON OCCUPATIONAL SKILLS | 1. Performs safety-related functions. | 1.01 Uses personal protective equipment (PPE) and safety equipment. | 1.02 Maintains safe work environment. | | | |
| | 2. Uses and maintains tools and equipment. | 2.01 Maintains tools and equipment. | 2.02 Uses rigging, hoisting and lifting equipment. | 2.03 Uses access equipment. | | |
| | 3. Performs routine trade practices. | 3.01 Uses documentation. | 3.02 Determines project requirements. | 3.03 Plans job. | 3.04 Protects surroundings. | 3.05 Handles materials. |
| | 4. Performs quality control assessments. | 4.01 Assesses substrate conditions and deficiencies. | 4.02 Assesses product conditions and deficiencies. | 4.03 Assesses quality of painted or coated surfaces and wall coverings. | | |
| B - SURFACE PREPARATION | 5. Performs general surface preparation. | 5.01 Removes existing paints and coatings. | 5.02 Removes existing wall coverings and adhesives. | 5.03 Cleans surfaces. | 5.04 Primes surfaces. | 5.05 Sands surfaces. |
| | | 5.06 Applies caulking. | | | | |
| | 6. Prepares wood surfaces for paints, coatings and wall coverings. | 6.01 Treats wood surfaces. | 6.02 Repairs imperfections in wood. | | | |
| | 7. Prepares concrete and masonry surfaces. | 7.01 Mechanically treats concrete and masonry surfaces. | 7.02 Chemically treats concrete and masonry surfaces. | 7.03 Repairs concrete and masonry surfaces. | | |

| BLOCKS | TASKS | SUB-TASKS | | | | |
|---|---|---|---|---|---|---|
| | 8. Prepares metal surfaces. | 8.01 Treats metal surfaces. | 8.02 Repairs metal surfaces. | | | |
| | 9. Prepares plaster surfaces and drywall. | 9.01 Repairs existing plaster surfaces and drywall. | 9.02 Finishes new drywall. | | | |
| C - RESIDENTIAL, INSTITUTIONAL AND COMMERCIAL PAINTS AND COATINGS | 10. Prepares for application of residential, institutional and commercial paints and coatings. | 10.01 Prepares residential, institutional and commercial paints and coatings. | 10.02 Installs residential, institutional and commercial reinforcing mesh. | | | |
| | 11. Applies residential, institutional and commercial paints and coatings. | 11.01 Applies residential, institutional and commercial paints and coatings with brushes. | 11.02 Applies residential, institutional and commercial paints and coatings with rollers. | 11.03 Applies residential, institutional and commercial paints and coatings with applicators. (NOT COMMON CORE) | 11.04 Applies residential, institutional and commercial paints and coatings with spray equipment. | |
| | 12. Applies decorative/ specialty finishes. | 12.01 Applies paints and coatings using decorative techniques. | 12.02 Creates faux finishes. | 12.03 Applies gilding. | 12.04 Applies stencils and graphics. | 12.05 Creates textured finishes. |
| | | 12.06 Applies multi-spec coatings. | | | | |
| D - WALL COVERINGS | 13. Prepares for application of wall coverings. | 13.01 Treats surfaces for wall coverings. | 13.02 Lays out surface. | 13.03 Prepares wall coverings. | | |
| | 14. Applies wall coverings. | 14.01 Applies adhesives. | 14.02 Installs vinyl wall coverings. | 14.03 Installs fabric and natural material wall coverings. | 14.04 Installs rigid wall coverings. | 14.05 Repairs existing wall coverings. |
| E - WOOD FINISHES | 15. Prepares for wood finishing applications. | 15.01 Conditions wood surfaces. | 15.02 Applies wood fillers. | 15.03 Seals wood surfaces. | 15.04 Prepares wood finishing products. | |

| BLOCKS | TASKS | SUB-TASKS | | |
|---|---|---|---|---|
| | 16. Finishes wood surfaces. | 16.01 Brushes on wood finishes. | 16.02 Wipes on wood finishes. | 16.03 Sprays on wood finishes. |
| F - INDUSTRIAL PAINTS AND COATINGS | 17. Prepares for application of industrial paints and coatings. | 17.01 Prepares industrial paints and coatings. | 17.02 Installs fibre reinforced plastics (FRP). | |
| | 18. Applies industrial paints and coatings. | 18.01 Applies industrial paints and coatings with hand tools. | 18.02 Applies industrial paints and coatings with power tools. | |